

## GENERAL

### INTERSECTION OPERATION

## CONTROLLER REQUIREMENTS

## GENERAL NOTES

THE MCDPW WILL INSTALL THE WIDE AREA VIDEO VEHICLE DETECTION SYSTEM. CONTACT MR. ROBERT GONZALES AT 240-777-8761 ONCE THE EQUIPMENT IS AVAILBE.

#### A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION

EQUIPMENT LIST "C"

<u>QUANTITY</u>	<u>DESCRIPTION</u>
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1 EA. POLE MOUNTED CABINET/CONTROLLER

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

CATEGORY CODE NO.	SPEC. SECTION	QUANTITY	DESCRIPTION
203030	205	5 C.Y.	TEST PIT EXCAVATION
500000	556	100 L.F.	24 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING
801004	801	6 C.Y.	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
801104	812	14.5 L.F.	FURNISH AND INSTALL WOOD SIGN SUPPORTS 4 IN. X 4 IN.
801106	812	16.5 L.F.	FURNISH AND INSTALL WOOD SIGN SUPPORTS 4 IN. X 6 IN.
801716	801	5 S.F.	RELOCATE EXISTING SIGN
802501	810	80 L.F.	FURNISH AND INSTALL NO. 6 A.W.G. STRANDED BARE COPPER GROUND WIRE
805118	805	44 L.F.	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID PVC CONDUIT - PUSHED
805150	805	35 L.F.	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED
805160	805	20 L.F.	FURNISH AND INSTALL 1 IN. LIQUID-TIGHT NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
810010	810	120 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 1 CONDUCTOR (NO. 4 A.W.G. THHN/THWN)
811001	811	10 EA.	FURNISH AND INSTALL ELECTRICAL HANDHOLE
813014	813	14 S.F.	INSTALL SHEET ALUMINUM SIGN - GROUND MOUNTED
813015	813	82 S.F.	INSTALL SHEET ALUMINUM SIGN - OVERHEAD MOUNT
837001	804	2 EA.	FURNISH AND INSTALL GROUND ROD - $\frac{3}{4}$ IN. DIAMETER X 10 FT. LENGTH
838003	807	1 EA.	FURNISH AND INSTALL CONTROL AND DISTRIBUTION EQUIPMENT (120/240V, 1 PHASE, 3 WIRE SYSTEM)
800000	814	28 EA.	FURNISH AND INSTALL 12 IN. VEHICULAR (POLYCARBONATE) SIGNAL HEAD - MAST ARM MOUNT
861107	810	160 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.)
861108	810	1250 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.)
861116	810	300 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 A.W.G.)
862102	815	60 L.F.	FURNISH AND INSTALL SAWCUT FOR SIGNAL (LOOP DETECTOR)
866104	818	1 EA.	FURNISH AND INSTALL 20 FT. LIGHTING ARM ON SIGNAL STRUCTURE
800000	805	665 L.F.	FURNISH AND INSTALL 2 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
800000	805	105 L.F.	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
800000	805	200 L.F.	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
800000	806	1 EA.	FURNISH AND INSTALL 250 WATT HPS VAPOR LUMINAIRE WITH PHOTO-CELL
800000	816	1 EA.	INSTALL EIGHT PHASE (FULLY ACTUATED) CONTROLLER AND CABINET - BASE MOUNT
800000	818	1 EA.	INSTALL 27 FT. STEEL MAST ARM POLE WITH A SINGLE 70 FT. MAST ARM
800000	811	6 EA.	RESET EXISTING ELECTRICAL HANDHOLE TOP AND INSTALL CONCRETE COLLAR
800000	XXX	1 LS	REMOVAL AND DISPOSAL OF EXISTING MATERIAL AND EQUIPMENT
800000	XXX	1 LS	REMOVAL OF EXISTING SIGNAL EQUIPMENT TO BE SALVAGED
800000	XXX	1 LS	DELIVERY OF SALVAGED SIGNAL EQUIPMENT AND MATERIAL
800000	XXX	1 EA.	FURNISH AND INSTALL MICROLOOP PROBE SET WITH 500 FOOT LEAD-IN
800000	XXX	3 EA.	FURNISH AND INSTALL MICROLOOP PROBE SET WITH 1000 FOOT LEAD-IN
800000	XXX	1 EA.	FURNISH WIDE AREA VIDEO VEHICLE DETECTION SYSTEM (TO BE INSTALLED BY MCDPW)

RUN NEW INTERCONNECT CABLE AS SHOWN FROM THE EXISTING SPLICE/TERMINAL CABINET TO THE NEW SIGNAL CABINET. REMOVE THE EXISTING INTERCONNECT CABLE WHEN THE EXISTING SIGNAL IS REMOVED.

EXISTING INTERCONNECT TO MD 108 @ DR BIRD RD.

C&P M4109

C&P 58

ML A

A

B

S

J,L,M,Q,P,V

PEPCO 792470-1552

A,B,J,L,M,O,V

C

C&P 60

PEPCO 1438

PF

A,B,C,D,J,L,M,O,P,R,S,V

J,L,M,O,P,V

D

D

POLE 9844

T

EXISTING INTERCONNECT TO MD 28 @ MD 182

S

I,K,N—NOT USED

J  
L  
M  
V

7-CONDUCTOR CABLE (NO. 14 A.W.G.)

O

2-CONDUCTOR TRAY CABLE (NO. 12 A.W.G.)

P — BARE COPPER STRANDED GROUND WIRE (NO. 6 A.W.G.)

Q — NOT USED

R — 1-WIRE #4 A.W.G. FOR TRAFFIC SIGNAL ELECTRICAL SERVICE

PF — PROPOSED UNDERGROUND ELECTRICAL SERVICE

ML — MICRO LOOP PROBE

A  
B  
C  
D

MICRO-LOOP PROBE LEAD-IN

E  
F  
G  
H

5-CONDUCTOR CABLE (NO. 14 A.W.G.)

F,G,H,I,J,L,V

G,J,L,M,V

E,G,J,L,M,V

E,F,G,H,I,J,L

S,T,U

H

L

F,H

V

J

G

E

J,L,M,V

S


II47 BA59

A,B,C,J,L,M,O,V

A,B,C,D,P,S

A,B,C,D,J,L,M,O,P,R,S,V

	1	2	3	4	5	6	7	8	
PHASE 2 + 5		G	R	R	R	R	R	R	
5 CHANGE		G	R	R	R	R	R	R	
PHASE 2 + 6	G	G	G	G	R	R	R	R	
2 + 6 CHANGE	Y	Y	Y	Y	R	R	R	R	
PHASE 3 + 8	R	R	R	R		G	R	R	
3 CHANGE	R	R	R	R		G	R	R	
PHASE 4 + 8	R	R	R	R	G	G	G	G	
4 + 8 CHANGE	R	R	R	R	Y	Y	Y	Y	
FLASHING OPERATION	FL Y	FL Y	FL Y	FL Y	FL R	FL R	FL R	FL R	

REVISIONS 1 REDLINE NO. 1 - 12/99 NEW SHEET		APPROVALS <div style="text-align: center;">  <p>             MARYLAND DOT - STATE HIGHWAY ADMINISTRATION  <i>Office of Traffic &amp; Safety</i>  <b>TRAFFIC ENGINEERING DESIGN DIVISION</b> </p> </div>	
		MD 182 (LAYHILL ROAD) AND EDNOR / NORWOOD ROADS	
12-99 - RECONSTRUCTED SIGNAL DUE TO REVISED GEOMETRY SHA CONT. NO. M08215171		DRAWN BY: S. THACKER CHECKED BY: R. ZACHERL SCALE: 1"=20' DATE: 10-9-86	F.A.P. NO. N/A S.H.A. NO. M08215171 COUNTY: MONTGOMERY LOG MILE: 15018204.95
10A OF 15		TS NO. TS-2243A T.I.M.S. NO. 0 127	